SECTION A(30 Marks)

(Attempt all questions)

Q1. Fill in the blanks : (write only answers)   [5]

   a) A set of instructions given to a computer to do a particular task
      is known as _____.

   b) An object is an entity with certain characteristics and
      _____.

   c) A Java program written in a text editor is called the
      _____ code.

   d) _____ are the smallest individual unit in a program.

   e) A float literal can have _____ digits after the decimal point and a
      double literal can have _____ digits after the decimal point.

   Q2.

   a) What is the ASCII code for Capital letters and Small letters.   [2]

   b) Which of the following are valid identifiers?   [2]

       i)else   ii) my@program   iii)public   iv)AB$5

   c) Name the operator used to check if the two operands are equal or
      not?   [1]

   d)The statement a%2 will result to what if the value of a is even
      number?   [1]

   e) How is character literal represented?   [1]

Q3. Rewrite the following Mathematical expressions into Java

expressions: [8]

a) ab+bc+ca
b) $a^2+2ab+b^2$
c) $|a+b|+b^4$
d) $2a+3\sqrt{a}$

Q4. Answer the following questions:

a) What are the different types of errors that may occur in a Java program? [2]
b) What are the different types of comments that you can provide to a java program? [2]
c) What are the three methods through which data is provided to a program? [2]
d) What are counters? Give example. [2]
e) Name the logical operators used in Java with examples. [2]

SECTION B(30 Marks)

(Attempt any three questions from this Section)

(3X10 marks)

Each program should be written using *Variable descriptions/Mnemonic Codes* so that the logic of the program is clearly depicted.

Q5. Write a program to display the names of five flowers with a single System.out.println(); statement, but in different lines.

Q6. Write a program using ternary operator to check whether 27 is a multiple of 3 or not.

Q7. If the total selling price of 10 items and the total profit earned on them is input through the keyboard, write a program to find the cost price of one item.

Q8. Write a program to input three numbers and find the average of their cube roots.